Materials Method N.Y. 19
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NEW YORK STATE

DEPARTMENT OF TRANSPORTATION

MATERIALS BUREAU

SAMPLING AND CONTROL OF EMULSIFIED CARBON BLACK

SCOPE

This method describes specific procedures for the sampling and control of emulsified carbon black for use on projects administered by the Department's Division of Construction. This method supersedes all previous instructions for the sampling and control of this product.

GENERAL METHOD

All emulsified carbon black as described above shall be sampled by a representative of the Department from filled and properly labeled shipment containers at the supply location.

At the time of sampling, the Inspector shall seal each container in the lot in the manner herein described denoting that sampling has been accomplished. All samples shall be tested by the Materials Bureau.

Upon satisfaction of test requirements, an acceptance notice will be issued by the Materials Bureau to the Inspector and he will, at that time, return to the supplier and supervise the application of the required acceptance identification data on each container in the sampled lot and complete the sealing procedure.

Shipments of emulsified carbon black to Department locations shall be made only after notification of acceptance has been provided the supplier by the Inspector and after the required identification and sealing has been accomplished.

Shipments shall be made by the supplier without the benefit of supervision by the Inspector.

The supplier shall send a letter to the Materials Bureau monthly. This letter shall list all shipments made during the previous month from Department accepted lots.

The appropriate seals on each container constitutes evidence of acceptability of the emulsified carbon black at the point of destination.

Any unauthorized tampering with or breaking of the seals between the time that they are affixed and the time the emulsified carbon black is incorporated into the concrete may be cause for rejection.

SAMPLING

1. DEFINITION OF LOT - A lot shall consist of a manufacturer's single batch of emulsified carbon black, produced at one operation, the weight and volume of which may vary, depending on the manufacturer's facilities.

   Consecutive lot numbers shall be assigned to each lot by the Inspector in the manner directed by the Materials Bureau. Each lot shall be identified by lot number from the time of sampling to the time it is incorporated into the concrete.

2. SAMPLING PROCEDURE - Upon notification from the supplier that the production and packaging of a lot has been completed, the Inspector shall schedule an inspection call for the purpose of obtaining samples and sealing the containers.

   On arrival at the plant, the Inspector shall ascertain that the lot offered for Department acceptance has been packaged in 30 or 55 gallon drums of the open head type and that the tops of these drums are secured with lever type ring seals. The Inspector shall also ascertain that all containers offered for the lot are stored in a single completely accessible location and that each container has been plainly and permanently marked with the following minimum information:

Name and Address of Manufacturer

Product Name

N.Y.S. Lot No.

Number of Gallons

The Inspector shall personally select four (4) drums at random from the lot. Under his direct supervision, the contents of each of these containers shall be thoroughly mixed on equipment provided by the supplier. Immediately following such mixing, an approximate one-quart sample shall be dipped from each container with a clean can free from dirt, caked and flaked material. These one-quart samples shall be placed in a clean, dry pail. The composite sample shall be thoroughly mixed (boxing preferred). This sample shall then be packaged in one (1) clean, dry, friction top quart can. The cover of the can shall be closed tightly and secured by safety clips. Sample containers, covers, safety clips, pail and sampling can shall be provided by the supplier.

Upon completion of sampling and before leaving the plant, the Inspector shall seal each drum in the lot with a wire and the Department's red metal security seal labeled "N.Y.S. Sampled." The wire shall be drawn securely and tightly through the lever and the body of the ring with the red metallic security seal affixed in such a manner that the lever can not be released without destroying the seal.

In addition, all other openings in the drum or its cover shall be sealed with a red mylar security tape imprinted "Sealed N.Y.S. D.O.T."

3. IDENTIFICATION OF SAMPLE - The Inspector shall apply a permanent marking to the side of the sample can of each lot identifying the product, manufacturer's name, supplier's name, and N.Y.S. lot number.

The Inspector shall then execute sample information card, form BR-240, and enclose it with the sample packaged in accordance with the instructions issued by the Materials Bureau.

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The Inspector should supervise the packaging of the sample container in a suitable carton containing sufficient material to protect the contents in transit and should personally dispatch the completed sample package to the Materials Bureau for test.

ACCEPTANCE PROCEDURE

A notice of acceptance shall be issued to the Inspector by the Materials Bureau. Telephone requests to the Materials Bureau for acceptance action, in advance of normal notification, will be honored only when received from the Inspector. All such calls shall be made at the supplier's expense.

Upon receipt of the acceptance notice, the Inspector shall return to the supplier to supervise the stenciling or labeling of acceptance identification to each container in the lot. For this purpose, the supplier shall furnish a stencil or label with the following information thereon:

Test Number

Accepted (Date)

Department Specification Designation

The supplier shall provide such cooperation and assistance as may be required by the Inspector to efficiently accomplish this identification.

At the same time, the Inspector shall affix a green metallic security seal to the 30 or 55 gallon drums as described under 19-3.

NOTE: The mylar security tapes and metallic security seals constitute an integral part of the acceptance documentation of the emulsified carbon black through to the site of the work. These tapes and seals are the exclusive property of the Department and its officially designated representatives. The Inspector shall be responsible for the tapes and seals supplied to him and shall not permit their possession by anyone other than himself.

SHIPMENT PROCEDURE

Shipments to Department destinations shall be made only

after acceptance of the emulsified carbon black and upon completion of the procedures outlined above. Shipments shall be made without benefit of supervision by the Inspector.

Within ten days after the last business day of each month, the supplier shall file a letter with the Materials Bureau which describes the shipment details of all Department accepted lots shipped during that month. This letter shall contain the lot number, test number, quantity and destination of each shipment. A copy of this letter shall be filed with the Inspector. The Inspector shall use this copy in subsequent trips to the supplier to provide random checks on the remaining inventory. No action will be required on these random checks unless disagreement is found between the stock and the records.

No shipment from Department inspected lots may be made to sites other than Department projects without the specific written permission of the Materials Bureau.

EVIDENCE OF ACCEPTABILITY

The evidence of acceptability of a shipment of emulsified carbon black at the point of destination shall consist of drums labeled and sealed as listed below:

LABELED WITH:

N.Y.S. Lot No.

Date of Acceptance

Test No.

SEALED AS FOLLOWS:

Sealed with one red metal security seal imprinted "N.Y.S. Sampled" and one green metal security seal imprinted "N.Y.S. Accepted."

Any other opening in the drum or its cover should be sealed with a red mylar security tape imprinted "Sealed N.Y.S. D.O.T."

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